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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/606,872	06/26/2003	John K. Walton	EMC2-143PUS	EMC2-143PUS 5270	
45456	7590 12/04/2006		EXAMINER		
RICHARD M. SHARKANSKY		CHEN, ALAN S			
PO BOX 557 MASHPEE,			ART UNIT PAPER NUMBER		
ŕ			2182		
			DATE MAILED: 12/04/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Estensinos of time may be available under the provisions of 37 CPR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than there months after the mailing date of this communication, even if timely filed, may reduce any carned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 21 September 2006. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-13 and 18-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-13 and 19-21 is/are allowed. 6) Claim(s) 18 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s)		Application No.	Applicant(s)			
Alan S. Chen		10/606,872	WALTON ET AL.			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of their may be availated the provisions of 37 CFR 1.136(), in to event, however, may reply be timely field of the communication of the provisions of 37 CFR 1.136(), in to event, however, may reply be timely field of the communication of the provisions of 37 CFR 1.174(). Failur to reply vision the relating date of this communication. Part of the provision of the provision of the provision of the provision of the communication of the communication. Part of the provision of the provision of Claims 4) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1-13 and 18-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) 1-13 and 19-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are objected to. 8) □ Claim(s) is/are objected to. 8) □ Claim(s) is/are objected to by the Examiner. 10) □ The specification is objected to by the Examiner. 10) □ The drawing(s) field on 26 June 2003 is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b □ Some ** ○ □ None of: 11 □ Craffied copies of the priority documents have been received in	Office Action Summary	Examiner	Art Unit			
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DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments filed 09/21/2006 pertaining to claims 12,13 and 19-21 have been fully considered and are persuasive. The prior art rejection of claims 12,13 and 19-21 is withdrawn.
- 2. Applicant's arguments filed 09/21/2006 pertaining to claim 18 has been fully considered but they are not persuasive. Applicant argues there is no electrical circuit in Locklear et al. and that Locklear et al. does not disclose inhibiting the electrical coupling of the electrical component one on PCB from electrical components of others.

Examiner points the Applicant to paragraph 25 of Locklear et al. As stated in the previous of Office Action, the Improvement Engine (*Fig. 1, element 112*) is the electrical circuit. Paragraph 25 expressly states the Improvement engine being a "programmable logic device or ASIC". Clearly, one of ordinary skill in the art views such elements as a 'circuit'. The purpose of the Improvement Engine is to optimize the data transfer between the PCBs and the I/O buses such that the best possible speed is utilized to make the system faster and more efficient. Fig. 2 shows various buses that the various PCBs can be operating on. During initialization, the Improvement Engine determines if a particular PCB is preventing the other PCBs on the bus from performing optimally, e.g., Fig. 2, element 116B is slower than the other PCBs and therefore being the bottleneck. The Improvement Engine tells the user to move the PCB element 116B to another slot element 108H. At this point, the PCB originally at element 116B is inhibited from communicating with 116A since they are not on the same bus anymore. Thus, as

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stated in the previous office action, the Improvement Engine effectively inhibits the electrical coupling of the electrical component of one PCB to other PCBs. Paragraphs 25 through 33 explains discloses this in detail.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 18 are rejected under 35 U.S.C. 102(e) as being anticipated by US Pat. Pub. No. 2002/0099875 to Locklear et al. (Locklear).
- 5. Per Claim 18, Locklear disclose method for operating a system (Fig. 4 shows the method that is applied to Figs. 1 and 2, the system), comprising: providing a backplane system (Fig. 2, slots shown all intrinsically reside on a backplane) comprising: a plurality of printed circuit boards (Fig. 2, each slot holds a PCB) each one having an electrical component thereon (PCBs have electrical component, e.g., logic that performs some functionality; Paragraph 24 gives some examples such as RAID controllers, video adapters, graphic accelerators, etc); and a backplane having plugged therein the plurality of printed circuit boards for producing a signal indicative of an operating incompatibility of the electrical components (Fig. 2, elements 116x are signals that indicate an operating incompatibility. For instance, Fig. 2, element 116B flashes an

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PCBs on the bus).

amber signal color to indicate the PCB, e.g., 66MHz, is not optimal for the slot, e.g., 100MHz; Paragraph 32); plugging an additional printed circuit board having an electrical component thereon into the provided backplane (Fig. 2, another PCB is plugged into empty slot 116D), the electrical component on such additional printed circuit board being incompatible with the speed of the electrical components on the plurality of printed circuit boards (Fig. 3, element 302; the PCB is operates at 66MHz, however it is plugged into a 100 MHz slot); an electrical circuit (Fig. 1, element 112, the improvement engine) for electrically inhibiting the electrical coupling the electrical component on the additional printed circuit board from the electrical components of the plurality of printed circuit boards (Fig. 4 shows that the PCBs are not allowed to communicate until optimization is completed. Furthermore, the improvement engine causes PCBs that slow down the bus to be removed from bus, inhibiting the communication with other

Allowable Subject Matter

- 6. Claims 1-11 are allowed based on previously stated reasons for allowance.
- 7. Claims 12, 13 and 19-21 are allowed.

The following is the statement of reasons for the indication of allowable subject matter: The prior art disclosed by the applicant and cited by the Examiner fail to teach or suggest, alone or in combination, *all* the limitations of the independent claim(s) (claims 12 and 19), particularly a plurality of PCBs plugged into the backplane, each PCB having a plurality of electrical contacts each contact indicating an operating incompatibility of an electrical component, wherein each one of the electrical contacts

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are electrically connected through a corresponding one of a plurality of conductors of the backplane. US Pat. No. 6484222 to Olson et al. shows a plurality of conductors of a backplane that carry operating incompatibility signals of PCBs such that the signals from the conductors all feed to a controller (Fig. 2, element 100). However, Olson et al. does not teach or suggest, alone or in combination that the plurality of conductors are electrically connected together at the controller.

Conclusion

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alan S. Chen whose telephone number is 571-272-4143. The examiner can normally be reached on M-F 9am-5pm.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ASC 11/22/2006

> KIM HUYNH SUPERVISORY PATENT EXAMINER

> > 11/22/06